



New College students Pamela A. Mackay, Kathy Lunn and Carolyn Gray lend a hand with tree planting in the quadrangle between Wetmore and Wilson Halls.

## New College students spark 'Operation Tree'

Student interest and enthusiasm — and financial support — provided trees for the "quad" of New College much sooner than was possible otherwise.

While the two college buildings were under construction, the builders and the University made heroic efforts to save two or three of the major trees in the area. One tree survived until last year, but the rigours of construction activity finally caught up with it.

Students, particularly those in residence, decided to do something about the lack of greenery. The Women's Residence Council, the Men's Residence Council, and the N.C. Student Council each agreed to provide some funds for landscaping. The Physical Plant Department was unable to implement its landscaping plan because of limited funds. This fall student representatives and College administrative officers met with the Director of the Physical Plant Department, Frank Hastie, and some of his grounds people. Gratified by the student interest, and encouraged by the promise of the College representatives to find more than half of the money necessary for implementing the initial plan (14 trees at a total cost of about \$2500) Mr. Hastie rearranged the priorities in his tree replacement program, and now New College quadrangle has its trees again.

In addition to the three student organizations, "Operation Tree" received support from others. Wilson Hall is named in memory of the late W. S. Wilson, the first Registrar of the college, and Mrs. Wilson enthusiastically joined the landscaping movement. The architects of the college buildings, Fairfield and Dubois, also supported the movement.

The trees, between Wilson and Wetmore Halls, include several varieties of oak, maple, larch, linden, crab apple and ginkgo — trees for shade and trees just for ornament.



THE SCHOOL OF BUSINESS, from the seventh floor of its new Bloor Street building, offers this excellent view of Varsity Stadium, and the big games. (This particular one was the College Bowl game between Ottawa and Manitoba.) In its new quarters, which it shares with the School of Social Work, the School of Business has modern classrooms, seminar rooms, offices, and library. Business alumni enjoyed an "open house" recently, as guests of Prof. Warren Main, director, and his colleagues.

## A & S Council to debate parity at plenary meeting January 19

At the request of 15 members of the Faculty of Arts and Science Council, a plenary meeting of the Council will be held on Tuesday, Jan. 19, at 4.10 p.m. in

### Blue Cross applications must be received by Jan 29

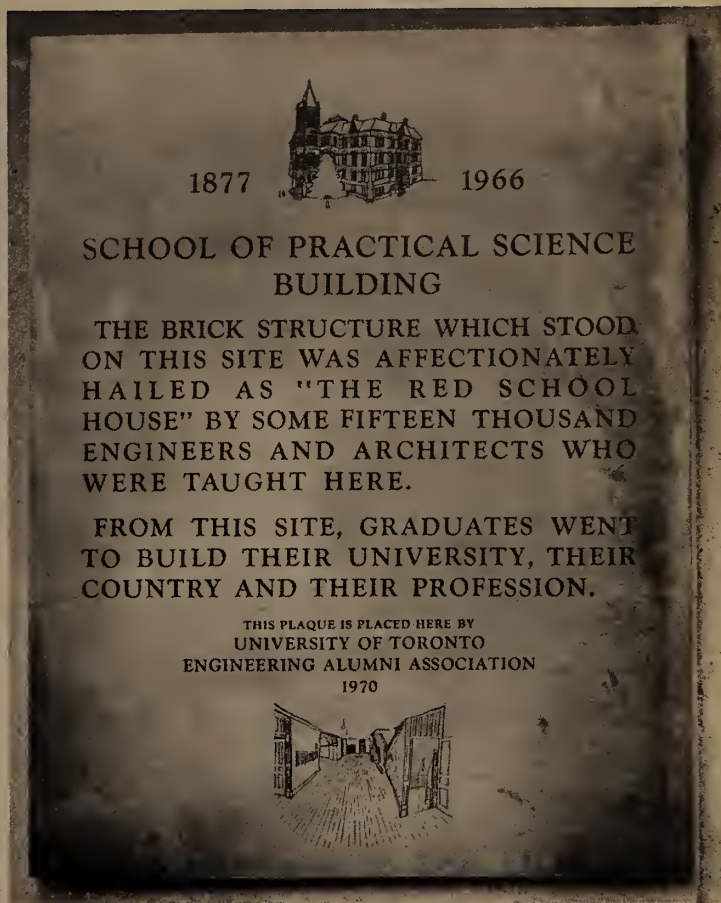
The next opening date for the Blue Cross Extended Health Care Plan will take place on March 1, 1971, the effective date of coverage. All applications must be received by the Staff Relations section of the Personnel Department no later than Jan. 29, 1971.

Staff members who do not enroll by Jan. 29 will not have another opportunity to participate in this plan until Feb. 1, 1972.

Convocation Hall to discuss the following motion:

"Whereas the Council of the Faculty of Arts and Science has repeatedly expressed its opposition to the existence of parity committees, and whereas the General Committee is itself a committee of the Faculty, be it resolved that the proposed parity committee to study the restructuring of Council be abandoned and that a committee of six staff and two students plus the Dean of the Faculty as chairman be set up to report on restructuring of the Council to the full Council by April 1, 1971."

The meeting originally was to have been held on Dec. 14. This was changed to the 18th because of conflict with other meetings on that day. William D. Foulds, Assistant Dean and Secretary, said the postponement until Jan. 19 was requested by sponsors of the motion.



This plaque on the Medical Sciences building perpetuates the fact that the old Red Schoolhouse, original home of Applied Science and Engineering, stood on this site. See also page 5.

## Alumni plaque commemorates 'Schoolhouse'

To those who look for a raid on the Meds or a caper further afield when they hear the sometimes-tortured cacophonies of the Lady Godiva Memorial Band, a dignified and utterly peaceful ceremony at the north-west corner of the Medical Sciences building must have been a source of minor mystification. There Dean A. L. Chute, Medicine, and Dean James Ham, Applied Science and Engineering, were peacefully assembled with other members of the two Faculties and alumni, to unveil jointly a plaque commemorating long years when engineers and architects occupied and were taught on the site.

Of the 15,000 engineers and architects who had laboured in the old School of Practical Science building torn down in September 1966, to make way for the new Medical Sciences Building, there were some 50 present led by Engineering Alumni president F. T. Gerson, '47.

While there was no disguising the nostalgia felt by engineers present, Dean Chute told them to take heart from the fact that, if medical men were only belatedly becoming aware of the contributions that engineers can make to medicine, the examples of fruitful co-operation, typified by the University's own Institute of Bio-medical Electronics, are every day increasing.

The handsome bronze plate that now marks the site of the old building was the gift of the Alumni.

### DECEMBER 31 DEADLINE

University of Toronto Bulletin is published by Department of Information, Room 225, Simcoe Hall. All material for the next issue should be in the hands of the editor, Mrs. Winogene Ferguson (928-2102) by noon, December 31.



# Mr Plumptre suggests Scarborough federal role

A. F. Wynne Plumptre, Principal of Scarborough College, submitted to the Presidential Advisory Committee on the Status and Future of Scarborough College, a proposal for a new federal arrangement for the college and the University that would give Scarborough greater autonomy.

Mr. Plumptre's ideas were contained in a statement, which is reported in the following, taken from the minutes of the Committee meeting:

Principal Plumptre reviewed the first few years of the College's history and concluded that they had passed fairly successfully. There had been built up an effective, cohesive and largely self-contained administrative organization. The very diverse activities were clear evidence that Scarborough was unlike the colleges on the St. George campus, and that it had achieved the status of a separate campus.

The building of an effective and cohesive administrative structure was dependent on an essential precondition: that officers of the College, who were responsible to authorities on the St. George campus as well as to authorities on the Scarborough campus, respond to direction from the Scarborough campus. In large part because of the goodwill of authorities on the St. George campus, an informal transfer of decision-making to the Scarborough campus did occur. This transfer of decision-making assured that such administrative officers as the College Librarian, the Superintendent of Buildings and Grounds, and Director of Athletics worked together, under the direction of the Principal, rather than at cross-purposes or with different priorities, under the direction of various authorities on the St. George campus.

A similar, informal transfer of decision-making occurred in academic affairs. This was evidenced by the College's development of distinctive course offerings, its divisional structure and its arrangements for appointments, promotion and tenure.

As a result, Mr. Plumptre stated, the tide appeared to be going in favour of the College until about one year ago. However, in 1969-70 the tide turned against the Scarborough experiment. The Principal listed four factors which caused him to conclude that the position of the College in the University was deteriorating seriously.

First, the report of the Commission on University Government and subsequent debate on the report appeared to challenge the assumption held by the College regarding the development of increased autonomy. The report did not envision more autonomy for Scarborough-College than for the colleges on the St. George campus, and challenged the continuation of the separate Scarborough campus budget. Moreover, the report proposed a system of university government under which the interests of a remote part of the University might well be treated less sympathetically than at present.

Second, the decline in the rate of growth of graduate enrolment in the University resulted in a challenge from some persons to the right of equal access to the Graduate School for Scarborough faculty members.

Third, by virtue of the University's decision last June that the amount of graduate income to be assigned to the College for 1970-71 would be the same dollar amount as that assigned to the College for 1969-70, it became clear that two years of effort to arrive at a rational formula to determine graduate income had failed. Consequently, it became clear that the College had no reliable basis for its financial planning.

Fourth, there appeared within the University a marked tendency in various quarters to seek to centralize financial control and decision-making authority.

The cumulative effect, Principal Plumptre stated, was to bring into serious danger the ability of the Scarborough campus to govern itself. As a result, Mr. Plumptre last spring virtually reached the conclusion that life would be intoler-

able for the College within the University of Toronto.

However, when the College's various problems were brought to the attention of the President and when the review of the College's status and future was requested, the response was encouraging. The President had suggested that the College seek to improve its position within the University through a liberalized federal structure rather than to seek to improve its position by leaving the University. Principal Plumptre suggested that the Committee should now seek to arrive at a suitable federal relationship, if such a relationship was indeed possible. If such a relationship could not be arranged, Principal Plumptre concluded that separation would be a preferable alternative to an attempt to operate the College on the basis of academic and non-academic decision-making dispersed across the St. George campus.

Mr. Plumptre argued that a new federal arrangement involving greater autonomy for the Scarborough campus would be of benefit not only to the Scarborough campus but also to the University as a whole. The University's administrators and its teaching departments were already overburdened with the difficult problems of the St. George campus. Attention to the distinctive problems of Scarborough would have to receive second priority, and friction would grow.

A liberalized federal structure would not imply an end to contacts among the campuses of the University. Full consultation and co-operation should continue on administrative matters. Movement of faculty among campuses (so long as it was not imposed) would continue. And academic and intellectual contacts, which surely do not depend on administrative arrangements, would continue unhampered.

Principal Plumptre put forward a number of specific proposals for federal arrangements. First, it was proposed that the College Council gain full control of the undergraduate curriculum of the College. A separate Faculty of Arts and Science might be created for the Scarborough campus or, preferably, a separ-

ate General Committee of the Council of a single Faculty of Arts and Science might be created.

Second, Scarborough College faculty members would be assured of equal access to the Graduate School. Facilities for graduate teaching and research would be provided, to the extent required, on the Scarborough campus.

Staff appointments, promotion and tenure would be the responsibility of the College in so far as these matters related to undergraduate work. Concerning Graduate School appointments, the Scarborough divisional chairmen would occupy the same position in regard to Scarborough candidates as the chairmen of departments now occupy for all candidates.

The College's operating budget would be placed on a firm basis by assuring: (a) that the College's entitlement was recognized to all income generated by its undergraduate enrolment; (b) that a rational formula was found for the compensation of the College for its services to the School of Graduate Studies; and by ensuring (c) that a rational formula was found for the compensation of the University for "general overhead" and for specific services rendered to the Scarborough campus.

The College would be free to create its own administrative arrangements, and would be free to allocate and re-allocate its income (within a balanced budget) as it saw fit.

Arrangements would be made for the College to receive a fair share of space entitlement and funds from the University's graduate entitlement. Accommodation for graduate and research work should not come from the College's entitlement for undergraduate teaching.

Decision-making for Scarborough at the top University level would be the responsibility of a special committee of the Board of Governors or of whatever governing council might succeed the Board. Decisions of this committee would, of course, be subject to approval of the Board or Council as a whole. Membership in the Scarborough Committee would include not only members of the Board or Council, but might also include other, lay members who would be able to give special attention to the needs of the Scarborough campus. Under the aegis of this committee, the senior administrative officers of the College would have informal access to Provincial

officials and would be able to receive the continuing feedback from the province so helpful in decision-making. Scarborough would also have connections with the Committee of Presidents of the Universities of Ontario and in the Association of Universities and Colleges of Canada.

Scarborough would share equitably in the burdens of fund raising work and in the proceeds of this work. A special Scarborough committee of the Board (or governing Council) would be of considerable assistance in fund raising. A University campaign that included projects on the Scarborough campus would be able to attract greater support than one that did not include them.

Finally, to assume the broader responsibility involved in conducting the business of the proposed, largely autonomous campus, the College would have to strengthen its own administrative structure. The senior administrative officer on the Scarborough Campus, on the retirement of Principal Plumptre in 1972, would be a Vice-President of the University for the Scarborough campus and also Dean of the College.

There would have to be created a firm financial basis for the College's operations and there would have to be administrative authority for the College to use these funds with maximum effectiveness. This assignment of authority could be accomplished in a federal framework in which the University as a whole would provide the Scarborough campus with guidance in matters of policy but in which the University would not dictate detailed patterns of administrative behaviour. Within this federal framework there would be full consultation and co-operation between members of the Scarborough campus and their colleagues on the St. George and Erindale campuses. Provision would have to be made for equal (non-discriminatory) access to the Graduate School for Scarborough faculty members. Arrangements for this equal access could be made within the financial stringencies involved by appropriate accommodations on both sides. The Scarborough campus would adjust its building plans appropriately and the Graduate School would alter its structure appropriately. Although it was difficult to be confident that these adjustments would in fact be made, it was the task of the Committee to address itself to them.

Prof. Kenneth Hare, chairman, suggested that, following Principal Plumptre's paper, almost all general views had been heard by the Committee. Therefore, he suggested that the Committee might now end its plenary sessions for the time being and form working groups for detailed consideration.

The Provost, Dr. John H. Sword, concurred with the Chairman's proposal to begin detailed discussion in working groups. It was now time for working parties to facilitate face-to-face negotiation between the College and the Dean (See page 5, col. 1)

## Library Council election results are announced by Chief Librarian

R. H. Blackburn, Chief Librarian, announces that the following have been elected to the Library Council of the University. Teaching staff members will serve three-year terms, one-third retiring each year. Students and the representatives of Scarborough and Erindale Colleges will serve one-year terms. Representatives of the alumni and federated universities will serve two-year terms.

### Teaching Staff

Division I (Humanities): M. R. Powicke, History; P. Heyworth, English; J. W. Wevers, Near Eastern Studies.

Division II (Social Science): J. Dales, Political Economy; R. Gregor, Political Economy; J. L. Lennards, Sociology.

Division III (Physical Science): G. R. Slemon, Electrical Engineering; A. D. Allen, Chemistry; D. A. L. Paul, Physics.

Division IV (Life Science): J. R. Brown, School of Hygiene; A. P. Ruderman, School of Hygiene; N. P. Badenhuizen, Botany.

### Students

Graduate Students, Division I (Humanities): P. A. Gale.

Graduate Students, Division II (Social Science): D. McLaren.

Graduate Students, Division III (Physical Science): B. M. Finigan.

Undergraduate Students, Faculty of Arts and Science, Division I (Humanities): L. M. Sword.

Undergraduate Students, Faculty of Applied Science and Engineering: T. M. Fairley.

Undergraduate Students, Faculty of Medicine: A. Rachlis.

Undergraduate Students, Degree Stu-

dents, Division of Extension: C. M. Henschel.

### Alumni

From the Senate: C. G. Miller.

### Federated Universities

From the Senate: W. J. Ruddock, French, Trinity College.

### Erindale College

H. Smith.

### Scarborough College

J. Ball.

## EXHIBITIONS

"The Christmas Star". Theatre of the Stars, McLaughlin Planetarium. Tuesday through Friday: 3.30, 8 p.m. Saturdays: 11 a.m., 2, 3.30, 7.30, and 9 p.m. Sundays: 2, 3.30, 5, 7.30 p.m. Dec. 2-Jan. 3.

"Spanish Fabric". Excellent examples from the 16th to the early 19th centuries. Textiles Gallery, 2nd floor, ROM. To Dec. 31.

"New Guinea: Big Man Island". Two hundred objects from the varied cultures of the island. Exhibition Hall, ROM. To Jan. 10.

"Printmakers of Canada". Prominent artists Saul Field and his wife, Jean Townsend have developed a method of printmaking which uses acidless plates on an etching press. Third Floor, Rotunda, ROM. To Jan. 10.

"The Crown in Canada". Pictorial reminder of two monarchies that shaped Canada's history. Portraits, documents, orders and signatures. Sigmund Samuel Canadiana Building. To Jan. 21.

"Agates". Small, beautiful collection of Lake Superior agates. Mineralogy Gallery, ROM. To March 1.

## To aid Pakistan support Oxfam

Signed on their behalf by Prof. Cranford Pratt, director of the International Studies Program, an appeal has been made to their University colleagues by nine members of the staff for all-out support of the Oxfam emergency fund for the relief of East Pakistan.

Supporting Prof. Pratt are Prof. Meyer Brownstone, Dean James Ham, Prof. David Nowlan, Prof. John Polanyi, Principal Wynne Plumptre, Prof. John Rist, Vice-President and Registrar Robin Ross, and Prof. John Ruderman.

Money is immediately needed for food, clothing, drugs, and water purification after the devastation caused by the tidal wave. Funds are also required for reconstruction of houses and farms, and the replacement of fishing boats. Oxfam's appeal for immediate help will not mean the diversion of funds from its long-standing and continuing relief programs elsewhere.

Cheques should be made payable to Pakistan Emergency Relief Fund, Oxfam of Canada, Room A, 97 Eglinton Ave. E., Toronto 12.





UNIVERSITY COLLEGE'S new Principal, Dr. A. C. H. Hallett, and retiring Registrar R. M. H. Shepherd were guests of honour at a "Holiday Reception" given by UC Alumnae and Alumni Associations. In the picture on the left are (left to right) Mrs. G. V. (Joyce) Forster, president of the Alumnae Association; Mrs. Hallett and her husband. The middle picture shows (left to right) Miss Susan Goldman and Tom

Schofield, members of UC's 1971 graduating class, all of whom were invited to the party; Mrs. Lorna Brigden, UC '19, president of the Alumnae Association in 1949 and 1950, and her husband, G. Geldard Brigden. In the right-hand picture are Prof. Shepherd and Mrs. Alex G. Rankin, wife of the University's Executive Vice-President (Non-academic).

## The President's Council discusses student representation, governance

The President's Council met on Dec. 7, in Room 432, Ramsay Wright Zoological Laboratories.

The major portion of the meeting was devoted to student representation on the Council. Dr. John H. Sword, Executive Vice-President (Academic) and Provost, introduced a letter from the president of the Students' Administrative Council setting out a resolution passed by SAC on Nov. 11, and asking the Council whether it could accept student members of the President's Council on these terms: appointment by SAC rather than election by the whole student body, and accountable to and subject to recall by SAC rather than responsible to the student electorate at large. A letter from Prof. Spencer was also introduced, pointing out that the whole history of the President's Council stressed the election of representatives of faculty and students, and that the undergraduate students had agreed to elections earlier in this session.

Rod Hurd, president of SAC, reiterated the reason behind the resolution: that the President's Council, being an advisory body, should be considered in the same category as presidential advisory committees, to which SAC has sent appointed representatives. A suggestion that campus-wide elections could be influenced by some immediate dramatic

event, like Kent State, into sending the wrong type of delegate to the Council was countered by the argument that this is a hazard of democracy and applies to all elections in all fields. When it was pointed out that the *ex officio* members are appointed, it was suggested that the president of SAC might serve as an *ex officio* member, but that the others ought to be appointed. It was further suggested that some form of election should be devised for the administrators.

Elected faculty members pointed out that the work of the President's Council differs greatly from the work of presidential advisory committees, and from the work of the ATS, the comparable body to the SAC. The great value of the President's Council is as a sounding box where important issues can be debated and dealt with objectively, and where conclusions can be arrived at by evolution of ideas. This whole concept would be destroyed if delegates came with unalterable instructions from their parent bodies, or if members were inhibited from expressing personal views which differed from those bodies. It was also mentioned that the appointment of student members was a concept that ran counter to the principles expressed in both CUG and UWC, and that the role of the President's Council during the

period before the inauguration of a new top governing structure was too important to be hampered by either the presence of instructed delegates or the absence of an adequate undergraduate voice.

A motion that the proposal in the resolution of SAC for the appointment of student representatives was not acceptable was carried. Dr. Sword added that he hoped the students would not think that the Council did not want them at the table, and that something could still be worked out.

Mrs. Norma Grindal, the newly elected representative of the part-time students, introduced a request that, in view of the special difficulties the part-time students have in attending day-time meetings, they be allowed to have an alternate with full voting privileges to attend in Mrs. Grindal's place when she cannot do so herself. A number of Council members, although sympathetic to the difficulties of the situation, thought that granting this request would set a precedent, as no Council member has ever before had an alternate, and they thought that the alternate should be accorded an assessor role. Nevertheless, on the motion which followed the Council did agree to grant to the alternate full membership privileges.

The graduate students reported that elections for their representatives would soon take place.

The recent statement of the Board of Governors on the future type of university government was discussed in the context of the next steps to be taken. Although there were several proposals in the Board's statement which many Council members did not accept, there was agreement that the chief problem was how best to get government action. The President thought that the two documents now in the hands of the provincial government, the recommendations of the University-wide Committee and the Board's statement, should not be looked on as alternatives between which the government must choose, but as two proposals within a spectrum. He thought that it was now time to take to the Board the Council's proposal that a committee drawn from the Board and the academic community be formed, to explore the recommendations of UWC and the statement of the Board, to identify and analyse areas of agreement and disagreement, and to make recommendations with respect to discussions within the provincial government. A motion to this effect was passed by the Council.

On the last item before it, the composition of the selection committee for the new President, the Council saw no reason to change its earlier decision, despite the resolution of the Association of the

Teaching Staff asking that the committee be modelled on the lines of the top governing structure recommended by the UWC. It therefore reaffirmed the resolution of Oct. 26, that the selection committee should be composed of five faculty, five students, five lay persons, and five administration, with the Chancellor as chairman.

### The unicameral system has not been rejected the President comments

In a letter to heads of divisions and chairmen of departments, Dr. Claude Bissell made two points in respect to the statement of the Board of Governors which was published in the *Bulletin* Dec. 2:

"At the meeting of the Board of Governors at which the statement was approved, I abstained from voting on the grounds that my responsibility as President is to attempt to express the views of the University as a whole.

"I have not changed my mind with respect to the unicameral system of government, and believe it to be a system that could work effectively at the University of Toronto. I do not read the Board's statement as constituting a rejection of the unicameral idea, nor, I believe, would the Board so interpret it."

## Ph.D. Orals

All members of the Graduate Faculty have the right to attend Ph.D. Oral Examinations.

Thursday, December 17

L. Hastie, Department of Physics. "The Mechanics of Deformation of the Earth's Crust". Thesis supervisor: Prof. F. S. Grant. Room 108, 16 Hart House Circle. 2 p.m.

Friday, December 18

Miss A. M. Hedlin, Department of Physiology. "The Effect of Hormones on the Fibrinolytic Mechanism". Thesis supervisor: Prof. F. C. Monkhouse. Room 108, 16 Hart House Circle. 10 a.m.

Friday, January 22

Roy E. Haliburton, Department of Educational Theory. "Factors Influencing Principals' Ratings of Administrative Potential Among Junior High School Chairmen". Thesis supervisor: Prof. T. B. Greenfield. Room 108, 16 Hart House Circle. 2 p.m.

Wednesday, January 13

Ozer Igra, Department of Aerospace Studies. "An Experimental Investigation of Nonequilibrium Corner-Expansion Flow of Ionized Argon". Thesis supervisor: Prof. I. I. Glass. Room 108, 16 Hart House Circle. 2 p.m.

## ATS against instructed delegates sitting on the President's Council

The Association of the Teaching Staff, at the annual general meeting on Nov. 30, called upon the President's Council "to reject any proposal that any of its members sit as instructed delegates from any staff, student, or other organization".

The preamble of a motion said that "when the ATS agreed to support the President's Council, it was understood that those serving on the Council were not delegates of the ATS, but were free to express their own views and we had assumed that when students were added to the Council they would serve on the same basis."

The resolution said that the ATS "deplores the decision of the Students' Administrative Council to regard undergraduate members of the President's Council as its appointed delegates".

In another resolution, the ATS asked that no action toward implementation of

the recommendations of the Presidential Advisory Committee on Extension be taken "until the ATS has had full opportunity to consider the report and make its views known", because the report "contains many recommendations which would alter the employment conditions of members of the teaching staff."

In addition to new officers and chairmen of standing committees, the following were elected to membership on the ATS Council: Professors Olga Bishop, Library Science; M. E. Berridge, Physical and Health Education; Donald Bellamy, Social Work; A. C. Coman, College of Education; L. T. Gardner, Arts and Science; A. D. Latta, Trinity College; P. L. Mathews, University College; Stanley A. Schiff, Law; L. W. Sumner, Arts and Science; G. R. Williams, Medicine, and J. S. Wood, Victoria University.



# STAFF NOTES

## Arts and Science

PROF. G. B. INGLIS presented a paper on "Conscious and Unconscious Models: Marriage and Incest Rules in Canada" and PROF. W. N. IRVING presented a paper on "Early Man in North America" at the annual meeting of the American Anthropological Association in San Diego in November.

PROF. WILLIAM J. SAMARIN read a paper entitled "Variation and Variables in Religious Glossolalia" at the annual meeting of the American Anthropological Association, in San Diego, Calif. in November.

PROF. HELEN S. HOGG lectured on "Recent Advances in Astronomy" at the Fall Conference of the Canadian Association of Science Teachers and Science Teachers Association of Ontario, in Toronto Oct. 31.

PROF. J. R. PERCY lectured on "The Crab Nebula" to the Peterborough Astronomical Association on Oct. 2. On Oct. 31 he conducted a workshop at the Fall Conference of the Canadian Association of Science Teachers and Science Teachers Association of Ontario in Toronto on "Student Activities for the New 'Space and Man' Course".

PROF. R. RACINE lectured on "The Photometry of Messier 67" at Yale University on Oct. 29.

PROF. R. C. ROEDER lectured on "Quasars and Cosmological Problems" at the University of Victoria on Nov. 12, and on the same topic at the University of Alberta on Nov. 13.

PROF. A. G. BROOK addressed the Organic Chemistry Colloquium of McGill University on the subject "Some Molecular Rearrangements in Organosilicon Chemistry" on Oct. 5 and presented the same lecture in the "Frontiers of Chemistry" series at Wayne State University, Detroit, on Oct. 26. He also gave a lecture to the Research Department of the Dow Corning Corp., Midland, Mich. on Nov. 10 on the subject "Silyl-diazoalkanes".

PROF. R. M. SMITH attended a meeting of the North West Branch of the American Oriental Society at Chicago on Nov. 9-10 and gave a Presidential Address entitled "Zoroaster versus Indian Thought". He also gave two lectures at the University of Stockholm, Sweden "Expectations from Sanskrit Literature" and "The Brahmin" on May 11. Prof. Smith also held a seminar on "Sin in India" at the School of Oriental Studies, London, England on May 15 and gave a series of four lectures at McMaster University on "The Vedic Background of Indian Religion", "Zoroastrianism", "The 6th Century B.C. in India" and "Western Classical Influence on Indian Culture", in October and November.

PROF. R. J. GLICKMAN attended a conference, Nov. 13-14, at Carleton University on "Latin American Prospects for the 1970s", and read a paper entitled "Observations on the Nature and Function of Literature in Spanish America".

The Bécquer Symposium, held on Nov. 7 to commemorate the centenary of the death of the Spanish poet, was organized by PROFS. D. MARIN, J. F. BURKE and E. RUGG. PROF. J. ESCOBAR was a member of the panel.

PROF. B. BUDUROWYCZ on Nov. 30, delivered a lecture on Slavic bibliographical tools to the Inter-Disciplinary Seminar in Soviet and East European Studies at Carleton University.

PROF. GLEB ŽEKULIN, gave a lecture on Nov. 16, at Carleton University, on "Neopopulism and Nationalistic Trends in Contemporary Soviet Literature".

## Victoria College

PROF. J. S. WOOD attended meetings of the Société d'Histoire littéraire de la France in Paris on Nov. 6, and Nov. 7 took part in a colloquium at the Collège de France on "Les Ecrivains français devant les événements de 1870-1871"; he gave two papers on "Hector Malot et la guerre de 1870", and "Hector Malot et la Commune".

## University College

PROF. B.-Z. SHEK gave two invited lectures, followed by seminars to senior day and evening history students at York University, on Nov. 5 and 12, on "The French-Canadian Novel and the Search for Identity". Prof. Shek has been named co-ordinator of a series of public lectures on, and meetings with, French-Canadian poets, to be held at Glendon College between November and March. The series is jointly sponsored by the College's "Forum", and the French-Canadian cultural organization, "La Chasse-Galerie".

## Trinity College

PROF. DENNIS DUFFY attended the Fiddlehead Conference of Canadian Prose Writers and Critics at the University of New Brunswick, where he delivered a paper on the poetry of Alfred Purdy. He

also attended the Canadian Association for American Studies Conference in Montreal and delivered a paper on American exiles.

PROF. M. J. SIDNELL gave a paper in November at the Second Joyce Symposium at McMaster University, entitled "A Daintical Pair of Accomplishes: Yeats & Joyce".

## St. Michael's College

PROF. J. M. DEWART gave a paper, "Some Reflections on Moltmann's Theory of the Future as the New Paradigm of Transcendence" at the Moltmann Colloquium held at the Colgate-Rochester-Bexley Divinity School Oct. 16.

## Scarborough College

PRINCIPAL A. F. W. PLUMPTRE has been appointed by the Canadian Government as one of the original Governors of the International Development Research Centre which is being set up in Ottawa. Of the 21 Governors 11 are Canadian and 10 are drawn from other countries. Prof. Plumptre has contributed a paper on "Exchange Rate Policy; Experience with Canada's Floating Rate" to a volume, published in Paris, of the "Essays in Honour of Thorkil Kristensen, retiring Secretary-General of the Organization for Economic Co-operation and Development".

S. A. AMENTA delivered a paper "Intimations of the Aesthetics Arena in an Educational Circus" to the Saskatchewan Society for Education through Art, on Nov. 6 at Lloydminster, Sask. This paper will be published in "FINE", the official journal of the Fine Arts Council of the Alberta Teachers Federation.

DR. V. VICTOR KINGSLEY was elected Secretary-Treasurer of the Canadian Society of Microbiologists, Central Ontario Branch, at its recent meeting held in Guelph.

PROF. R. C. ROEDER visited Ottawa on Oct. 23 to take part in a meeting of the National Committee for Canada of the International Astronomical Union and present a report on the restructuring of the Committee. Prof. Roeder also visited the University of Victoria on Nov. 12 and the University of Alberta at Edmonton on Nov. 13. In both cases he addressed the Department of Physics on the subject of "Quasars and Cosmological Problems".

PROF. P. H. SALUS spoke at a Linguistic Colloquium at the University of Washington, Seattle, on Oct. 28. The title was "Linguistic Descriptions and the Pacific Northwest". Prof. Salus also presented a paper on Oct. 30 at the University of Alberta, Edmonton (specifically to the School and Hospital Speech Therapists in the School of Rehabilitation Medicine). The title was "What's Wrong with Articulation Testing?" by Mary and Peter Salus.

DR. M. B. WALKER visited Simon Fraser University on Sept. 30 and gave a seminar

# Environmental specialists form cross-faculty division at U of T

Society's increasing concern with deterioration in the environment and the important role of the University in education, communication and research in this field are noted in a statement issued on behalf of the Environmental Sciences and Engineering group at U of T. The statement continues:

"The environmental problem is exceedingly complex, involving many different skills and disciplines. The crux of the problem may be inadequate communication between these different disciplines. There is no doubt that in the University of Toronto specialist skills exist in individual departments which can make a significant contribution to the solution of environmental problems. The difficulty lies in bringing the specialists' skills together in a meaningful dialogue.

"In some universities a separate department of environmental studies has been formed from experts in various disciplines. The disadvantage of this system is that the specialists may rapidly become out-of-date. Training in environmental matters at present is seen to be a graduate activity in which the specialist obtains an insight into other disciplines and becomes a generalist in environmental matters but a specialist in his own discipline.

"The University of Toronto has during the last three years created a structure known as the Environmental Sciences

entitled "Surface Relaxation and Quasi-Particle Interactions in Conduction — Electron Spin Resonance".

The Second All Canada Meeting On Tropical And Parasitic Diseases And Health — The National Forum — which took place on Nov. 28 in the National Defence Medical Centre, Ottawa, was chaired by DR. K. J. R. WIGHTMAN. Other contributions from members of Toronto General Hospital staff were: DR. W. J. E. SPENCE, "Surgical Aspects of some Tropical and Parasitic Diseases"; MISS M. A. MAMMINA and MR. S. L. CHEE, "Laboratory Aspects of Coprology". DR. MICHAEL LENCZNER served as secretary of the Program Committee and secretary at the meeting and presented: (1) "Typhoid Fever Imported" with DR. PHIL HALLORAN and (2) "Some Aspects of Bilharziasis".

## Applied Science and Engineering

PROF. A. N. VENETSANOPOULOS presented a paper on "Modeling of the Surface Scattering Channel as a Time-Varying Stochastic Filter" in the 1970 IEEE International Conference on Engineering in the Ocean Environment, which was held in Panama City, Florida, Sept. 21-24 and with PROF. E. E. NEWHALL a paper on "Traffic Considerations in an Experimental Distributed Switching System" in the Canadian Symposium on Communications which was held in Montreal, Nov. 12 and 13.

PROF. E. J. DAVISON presented two papers at the 1970 Joint Automatic Control Conference held at Georgia Institute of Technology, Atlanta Ga. on June 22-26, "A Time-Weighted Gradient Method for Computing Optimal Controls" by V. H. QUINTANA and E. J. DAVISON and "A Computational Method for Determining Quadratic Lyapunov Functions for Non-linear Systems" by E. J. DAVISON and E. M. KURAK. On Oct. 5-7, at the IEEE Symposium on Feature Extraction and Selection in Pattern Recognition held at Argonne National Laboratory, Argonne, Ill. a paper "Smearing Techniques in Pattern Recognition" by P. I. BOULTON, E. J. DAVISON and G. R. LANG was given. At the 20th Canadian Chemical Engineering Conference held at Sarnia, on Oct. 19-22, Prof. Davison presented a paper entitled "On the Control of a Large Chemical Plant" by E. J. DAVISON and K. J. CHADHA and on Nov. 9, at the Canadian Society for Chemical Engineering Symposium on "Applications of Computers in Canadian Industries" Prof. Davison presented a paper entitled "A Systematic Design of Control Systems for Chemical Processes".

## Medicine

DR. W. HARDING LE RICHE attended the First Commonwealth Conference on Development and Human Ecology, held in Malta during the week of Oct. 19 to 24. He presented a paper on "The Contribution of Medicine to the Creation of Ecological Chaos". On Oct. 2 Dr. le Riche spoke on "The World Picture of Heart Disease" to the Section on Occupational Health of the

Ontario Medical Association (Ontario/Quebec).

DR. S. L. COHEN attended the Third International Congress on Hormonal Steroids where he presented a paper entitled "Excretion of Estrogens by Pregnant Diabetic Women". He also visited the laboratories of Dr. H. Breuer in Bonn, Germany, where he presented a talk on "The Role of Ammonium Sulphate Precipitation in Estrogen Studies". He also visited and had fruitful discussions in the laboratories of Dr. Frandsen in Copenhagen, Dr. J. B. Brown in Edinburgh, Dr. Mary Coyle in Dundee, and with Dr. L. Martin in London.

DR. ROBERT L. RUDERMAN attended the Fourth Annual Meeting of the Association for Academic Surgery in Denver, Colorado, on Nov. 18 and 19, where he presented a paper entitled "Pathogenesis of Gall Stones in the Rat".

DR. K. G. MCNEILL attended the sessions of the IEEE meeting in New York on Nov. 4 and 5 on Biomedical Instrumentation.

## Law

PROF. G. L. MORRIS attended the conference held by the Canadian Institute of International Affairs in Ottawa on Nov. 24. The object of the conference was to plan a long-term study of the problems of international regulation and co-operation. Prof. Morris was named a member of the governing Council of the project. On Nov. 24, PROF. R. E. SCANE took part in a graduate seminar on condominiums at the Department of Environmental Studies, York University.

## Business

PROF. J. H. G. CRISPO attended the annual meetings of the Canadian Industrial Relations Research Institute in Ottawa, June 17-19. From June 22 to 24 he participated in the conference on Inflation and the Canadian Experience sponsored by the Institute for Economic Research at Queen's University and delivered a paper on "Inflation and the Guidelines". From Aug. 6 to Sept. 3 he interviewed senior union, management and government officials in eight West European countries, and attended the Second Annual Congress of the Industrial Relations Research Association, in Geneva. Prof. Crispo participated in the symposium on Systems Building, as a speaker and panelist, the symposium being sponsored by the Systems Building Centre, U of T, Sept. 29-30. On Oct. 8 he addressed the Hamilton

(See page 5, col. 3)

# Enrolment rate is declining

Preliminary enrolment reports from Ontario's fourteen provincially assisted universities and colleges and from Waterloo Lutheran University indicate that 115,672 students are enrolled in full-time programs in Ontario, the Hon. William G. Davis, Minister of University Affairs, announces. This is an increase of 12.1 per cent. over last year's enrolment of 103,206.

These figures indicate that, while actual enrolment continues to grow as the college age group increases in numbers, the percentage rate of increase has been declining over the past three years. Last year's total figure was an increase of 14.5 per cent. over the 1968-69 enrolment, which was in turn an increase of 17.3 per cent. over previous year's total.

This year the total undergraduate enrolment is 102,286 and the graduate enrolment is 13,386. The number of first year students is 33,352.

Figures for individual institutions are shown below.

	Preliminary	
	Actual 1969-70	estimate 1970-71
Brock	1,651	2,207
Carleton	7,138	8,100
Guelph	6,484	6,954
Lakehead	2,363	2,624
Laurentian	2,036	2,404
McMaster	6,956	7,899
Ottawa	7,079	7,996
Queen's	7,338	7,740
Toronto	24,036	25,430
St. George	21,298	22,000
Scarborough	1,832	1,830
Erindale	906	1,600
Trent	1,287	1,692
Waterloo	9,733	11,036
Waterloo Lutheran	2,715	2,806
Western	11,624	13,297
Windsor	5,020	5,737
York	7,748	9,750
Total	103,208	115,672





Medicine's Dean A. L. Chute tells the Engineers how glad he is that his faculty could provide so splendid a background for their Red Schoolhouse plaque.

## Mr Plumptre proposes plan for Scarborough

(Continued from page 2)

and chairmen from the Faculty of Arts and Science on such matters as provisions for Scarborough College control of its curriculum, arrangements for the portability of credits, arrangements for appointment, promotion and tenure. Similarly, there must be negotiation between College officers and other appropriate persons on the question of equitable access to the Graduate School.

Professors Slater and Cave moved (a) that the Committee go into sub-committee sessions, and (b) that the chairman determine the nature of the sub-committees, their membership and scope, by such consultations as he finds appropriate. The motion was carried.

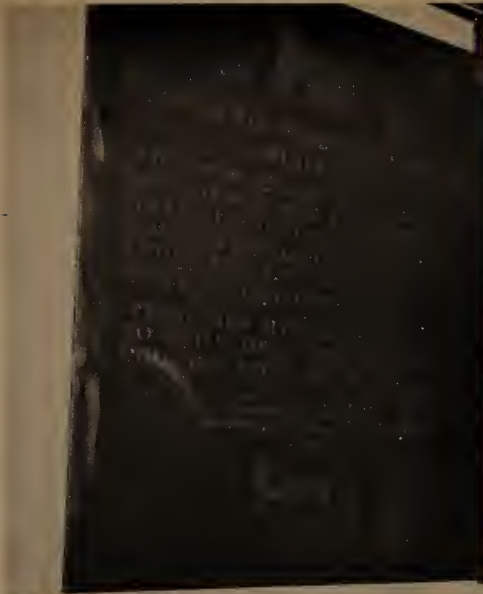
The Chairman indicated that he would accept this change, but that he would want to report his conclusions to a plenary meeting of the Committee to be held in the following week.

Prof. Hare reported that he had consulted with President Bissell on the matter of consultations with Dr. Douglas Wright, chairman of the Committee on University Affairs. The President had been reluctant to involve the Provincial authorities in any way before all possibilities were exhausted by the Committee for an internal settlement of problems. Involvement of Provincial authorities would be a setback in the efforts to maintain University autonomy.

Dr. Sword said that Dr. Wright would be in an unfortunate position because he would be unable to state definitely the Provincial position. Although Dr. Wright's opinions would be important, the ministerial opinion would be decisive in Provincial policy.

Principal Plumptre said that the purpose of any invitation would be to seek general information about plans for higher education in Ontario and not to seek a Provincial Government resolution of an internal, University of Toronto problem. He suggested that the Committee ask the chairman to speak again with the President and to make clear the Committee's purpose in asking that Dr. Wright be invited.

Prof. Hare indicated that he would consult again with the President. He commented that the Committee's and



Fred T. Gerson, president of Engineering Alumni, (left) and Engineering Dean James Ham take a close look at the plaque marking the site of the Red Schoolhouse.



RED SCHOOLHOUSE scenes, exterior and interior, are sketched on the plaque which the Engineering Alumni Association has installed at the northwest corner of the Medical Sciences building, on the site of which stood the venerable structure which once housed the Engineering Faculty. Mrs. James M. Ham (left), and Mrs. Roland McLaughlin, widow of the former Dean of Applied Science and Engineering, later chairman of the U of T Planning Division, who were guests at the plaque unveiling ceremony, pay special attention to the sketch at the bottom.

the proposed subcommittees' deliberations may well be stifled if they don't know the context of planning for higher education in the Province.

The Vice-President and Registrar, Robin Ross, noted that most expressions of strong opinion so far had originated with faculty members, and he expressed some concern that student views may not have been made fully known. The chairman pointed out that student opinion on the Committee had been canvassed at one previous meeting, and that student members had expressed a strong opinion in favour of retaining connections such that Scarborough College students would be working towards University of Toronto degrees.

Ron Hurd, president of SAC and a Scarborough student on the Committee, suggested that students had not spoken out strongly because their opinions had already been strongly voiced by Dean Colman and others. He conjectured that Scarborough College students felt that ties with the University should be retained provided that the costs of these ties were not excessive. One strong student view had been expressed: the desire of Scarborough College students to work towards University of Toronto degrees.

Principal J. T. Wilson, Erindale College, warned that increasing independence would weaken rather than strengthen the positions of colleges such as Scarborough and Erindale. They would run the risk of being regarded as "community colleges", and would receive little financial support, no space for graduate research, and no residences. Only by remaining firmly within the University of Toronto would these dangers be avoided. Principal Wilson stated that he spoke for all members in Erindale College in asserting the disinterest of that College in independence from the University of Toronto.

Dr. Wilson expressed the opinion that the administrative problems faced by Scarborough College were inadequate reason to consider the sorts of solutions

proposed to the Committee. At Erindale, many objectives were achieved within the present administrative arrangements.

Prof. W. C. Graham said that, while Scarborough College would be happy to remain a part of the University of Toronto, the University should be thought of as consisting of three equal campuses. We shouldn't tolerate a situation, he said, in which the University is thought of as only, in Principal Wilson's words, the main campus, with other entities existing in a more or less weak relationship with it. It is the purpose of this Committee to clarify these relationships.

## STAFF NOTES

(Continued from page 4)

ton Personnel Association on "Guidelines and Inflation: Fact and Fantasy", and on Oct. 28 addressed the Workers Education Association on "The Future of Industrial Relations". On Nov. 3 he presented a brief to the Ontario Legislative Committee on Labour on "Public Policy and Industrial Relations: The Challenge in Ontario". On Nov. 17 he addressed the Personnel Association of Toronto Conference on "White Collar Unionization on 'White Collar Unionism: Problems and Prospects'".

PROF. O. W. MAIN attended a conference of the Council of Deans of Faculties of Management and Business Administration, in Winnipeg, Nov. 3.

PROF. G. D. QUIRIN addressed the Fifth National Northern Development Conference at Edmonton, Nov. 5, on "The Limits of Government Assistance".

PROF. D. J. TIGERT delivered a speech to PMRS (Professional Market Research Society), Toronto, at the Park Plaza on Nov. 18. The topic was "Life Style Profiles of Canadian Television Audiences". He also published a paper entitled "The Fast Food Franchise: Psychographic and Demographic Segmentation Analysis" in the Journal of Retailing — Fall, 1970.

PROF. J. A. SAWYER presented a paper (co-authors N. K. CHOUDHRY, Y. KOTOWITZ

and J. W. L. WINDER) on "Some Simulation Results from the TRACE Econometric Model of the Canadian Economy" at the Second World Congress of the Econometric Society, Cambridge, England, on Sept. 11. He also presented a paper on "Foreign Trade in the TRACE Model" to the annual meeting of Project LINK at the London Graduate School of Business Studies, on Sept. 2.

### Russian and East European Studies

PROF. H. GORDON SKILLING gave a lecture at McMaster University on "Group Conflict and Political Change in Communist Systems" on Thursday, Nov. 26.

The Summer Russian Workshop is adding to its regular program a study tour to the USSR in the summer of 1971. PROF. S. V. KONONOFF visited the Soviet Union in the latter part of August and made the necessary arrangements with Intourist and the Faculty of Leningrad University. The participants of this tour will spend twelve days in Duny (a summer resort located near Leningrad) where they will have intensive language training from professors of Leningrad University. Nine days will be spent sightseeing in the cities of Leningrad, Moscow and Kiev.



# STAFF NOTES

## College of Education

DEAN DADSON attended the AUCC Conference in Winnipeg, Nov. 1-3, and at the Conference of Deans of Canadian Faculties and Colleges of Education on Nov. 2, gave a short address and led discussion on the topic "New Programs for New Types of Students".

PROF. G. A. WHYTE attended a special Institute on Teacher Selection Simulation Materials sponsored by the Ontario Institute for Studies in Education, on Oct. 26. The Institute was conducted by DALE H. BOLTON, Professor of Education, University of Washington. Prof. Bolton presented a very comprehensive program which he developed for the selection of persons entering the teaching profession.

On Nov. 13, officials from the Registrar's Divisions of McArthur College of Education, Althouse College of Education and the Faculty of Education, University of Ottawa, visited the College for discussion meetings on applications and registration procedures.

PROFS. A. S. NEASE and V. K. GILBERT have edited a book of readings entitled *The School and the Individual Student*. The majority of the readings are Canadian in content and authorship, and include articles by PROFS. S. L. KONG and J. D. THEXTON of The College faculty, as well as by the editors. The book, which appeared last month, is published by Simon and Schuster of New York.

PROF. J. W. GREIG has designed a comprehensive language arts program for elementary school pupils which is the basis of the Macmillan's COMMUNICATION series to be published in December, 1970. Prof. Greig is editor-in-chief of this series of language textbooks for Grades 3 to 6.

PROF. J. D. WOOD has been appointed to the Board of Directors of Prologue to the Performing Arts. "Prologue" brings to schools in Metro Toronto and some 20 Ontario counties travelling companies from the Canadian Opera Company, the Toronto Symphony, the National Ballet, and the Young People's Theatre.

MISS E. CRAMPTON has been invited to be Canadian co-chairman of the Drama Commission, York, England, 1971 International Conference on the Teaching and Learning of English. A direct outcome of the famous Dartmouth Conference of 1966, "York '71" is expecting five hundred delegates, mainly from England, Canada and the United States.

At the Fall conference of the Ontario Modern Language Teachers' Association held in Windsor, DR. GABRIELA LEECH delivered a paper, in Russian, on the topic "Zamyatin".

The CAST-STAO Autumn Conference in which members of the Science Department took an active part was an outstanding success. More than 2,000 science teachers attended, some from as far away as the Yukon and Australia. Every province except Prince Edward Island was represented.

PROF. JEAN STIRLING was guest instructor in a workshop entitled "Choreography in Aesthetic Sport". The workshop was sponsored by the Department of Physical Education and Athletics, York University and the Women's Technical Committee of the Ontario Gymnastic Federation.

The Elementary Education Department is setting up a Communications Skill Centre (Room 238) for the use of students who want practice and reinforcement in the areas of reading, writing, speaking and listening. Individual developmental programs will be devised for students based upon formal and informal diagnostic procedures. This Centre will operate in late afternoons on Monday and Wednesday of lecture weeks.

## Child Study

DR. MICHAEL GRAPKO presented a paper at the Ontario Educational Research Council's 12th annual conference at the Royal York Hotel on Friday, Dec. 4 on "Relationship of Pupil Security Characteristics and Teacher Awareness to Pupil Security Characteristics".

MISS MARGARET GALLOWAY addressed the staff and graduate students in the field of Special Education at Boston University, in Boston, Nov. 19-20, on "The Age of Instrumental Music for Children". She also conducted a full day's workshop with the graduate students. On Nov. 20, she spoke to the staff of the Massachusetts State Institute for Retarded Children on "Music Therapy".

## Ontario Institute for Studies in Education

DR. GEORGE TRACZ attended the 38th national meeting of the Operations Research Society of America, in Detroit, Oct. 28-30.

MISS SHIRLEY WIGMORE is vice-chairman and chairman-elect of the Educational and Behavioral Sciences Subsection, Association of College and Research Libraries, American Library Association, for 1970-71.

## Social Work

PROF. JAMES ALBERT was a member of the National Planning Committee for the Milieu/70 Conference and attended the sessions in Winnipeg, Oct. 24-29.

DR. DONALD BELLAMY was appointed to the three-member special review committee of the Department of Social and Family Services which will deal with appeals concerning licensing of day nurseries in Ontario.

DR. FRANCIS BREGHA was one of six resource persons at the Milieu/70 National Conference and he participated at preparatory meetings. He assumed the chairmanship of the Canadian Committee of the International Council on Social Welfare.

DR. A. J. O. FARINA addressed the Community Planning Association of Canada Annual Conference in Winnipeg on "Leisure and the City", Sept. 30. On Oct. 6 he delivered the keynote address to the Conference of National and Provincial Park Administrators, Fredericton, on the theme "Parks and People"; and on Oct. 19 spoke at the Training Seminar, Department of Lands and Forests, Dorset, on "Environment and Leisure".

DR. ELIZABETH GOVAN participated in the Workshop on Citizen Participation held in Toronto under the auspices of the National Council of Jewish Women, Oct. 17-19. She served as a member of a panel on "The University and Health Care for the Community" at the annual meeting of the

Association of Universities and Colleges of Canada in Winnipeg, Nov. 5.

DR. HOWARD IRVING presented a paper on "Patterns of Relationships between Married Couples and Their Parents and Parents-in-Law" to members of the Departments of Psychiatry and Social Work of St. Michael's Hospital, Toronto, Oct. 24.

DR. BENJAMIN SCHLESINGER attended the annual meeting of the National Council of Family Relations in Chicago, Oct. 7-9, and delivered a paper on "The Widow and Remarriage".

DR. BEN Z. SHAPIRO on Sept. 24 conducted a training session for staff embarking on a group treatment program of the Catholic Children's Aid Society of Toronto.

## Library Science

R. H. BLACKBURN, Chief Librarian of the University, has accepted an invitation from M.I.T. to serve for three years on its Visiting Committee on Libraries. The Visiting Committee, consisting of nine members of whom three are librarians from outside M.I.T., acts as an advisory group to the M.I.T. Corporation and its libraries.

CHRISTINA DUFF STEWART, a Book Selector at the University of Toronto Library, has been awarded a Canada Council grant for 1971. The grant will permit her to do research in England and in several U.S. cities on the Taylors of Ongar.

## Music

DEAN JOHN BECKWITH addressed the joint annual meetings of the American Musicological Society and the College Music Society on Nov. 6 on "What Every U.S. Musician Should Know About Contemporary Canadian Music". He presented diplomas for 1970 at the Royal Conservatory of Music on Nov. 11, and gave the evening's main address, on "Trying to Define Music". On Nov. 28 he gave the keynote address at the weekend contemporary-music workshop of the Ontario Registered Music Teachers' Association, on "Some Basic Problems in the Performance of New Music". His new choral composition, "1838", to words by Dennis Lee, appears in the December, 1970 issue of *The Musical Times*, London.

On Dec. 11 PROF. JOHN WEINZWEIG will attend a series of all-day seminars devoted to the study of several of his compositions by music students at the University of Ottawa. His Symphonic Ode was performed by the Victoria Symphony under the direction of Laszlo Gati on Nov. 22 and 23. His Clarinet Quartet has just been published by Leeds Music and is included in the recording "New For Now" volume 2 on Dominion label sponsored by CAPAC-CAB.

## Aerospace Studies

DR. J. H. DE LEEUW attended a NRC Technical Evaluation Panel in Ottawa on Dec. 9. On Oct. 26 he attended a NRC Associate Committee Meeting on Plasma Physics in Saskatoon and on Nov. 13 he was in Ottawa at the NRC Ad Hoc Committee Meeting on Plasma Science and Technology.

DR. I. I. GLASS visited Canterbury High School, Ottawa on Aug. 20 and 21 and participated in the Ontario Department of Education Short Course for Elementary and Secondary School Teachers on Space and Man by giving two lectures on "Space and Man", and "Shock Wave Phenomena and Man". He also attended the Canadian Aeronautics and Space Institute Symposium on "Education to Meeting Canadian Aerospace Goals of the '70's", on Oct. 21 and 22 in Ottawa. He presented some pertinent data on behalf of PROF. B. ETKIN and the Institute for Aerospace Studies on graduates of Engineering Science, the Aerospace Option, and M.Eng., M.A.Sc. and Ph.D. graduands from the Institute.

DR. P. C. HUGHES has finished his term as Summer Professor at the Communications Research Center in Ottawa. Most of his work was related to the proposed CTS (Communications Technology Satellite) program. In addition to informal lectures, his summer research results were in the areas of solar array flexibility, reaction wheel control systems, station acquisition, attitude dynamics, and mission analysis.

DR. H. S. RIBNER chaired the third meeting of the Sonic Boom Panel of the International Civil Aviation Organization, Montreal, Oct. 12-21. The Panel, representing six countries involved in sonic boom research, finalized and submitted its first official report on the effects of sonic boom on humans, animals, structures, and terrain. On Oct. 29-30, Dr. Ribner attended the NASA Third Sonic Boom Conference in Washington. He attended the Houston meeting of the Acoustical Society of America, Nov. 3-6, including the ASA Second Sonic Boom Symposium, Nov. 6, of which he was co-organizer (with H. H. HUBBARD of NASA) and chairman. The twelve invited survey papers constituting this symposium will be published by ASA in a Proceedings which will serve to document the state-of-the-art in sonic boom research as of 1970. DRS. H. S. RIBNER and I. I. GLASS attended the Second Interdepart-

mental meeting on Sonic Boom Effects in Canada on Nov. 10 at Montreal, in order to participate in discussion on current research and development in this field. They also attended the Third NASA Contractors-Centres Conference on Sonic Boom Research at NASA Headquarters, Washington, Oct. 29 and 30, and participated in the discussions on the recent research and development in this field.

DR. R. C. TENNYSON attended the 3rd Canadian Medical & Biological Engineering Conference in Halifax on Sept. 9-11 and presented a paper entitled "Application of the Split Hopkinson Bar to Determine the Dynamic Response of Bone". He presented an invited lecture at McMaster University entitled "The Effect of Shape Imperfections on the Stability of Cylindrical Shells" on Nov. 25. The seminar was given in conjunction with the series of Applied Mechanics lectures at McMaster.

## Computer Science

PROF. T. E. HULL attended the fall meeting of the Society of Industrial and Applied Mathematics in Boston from Oct. 12 to 14. He took part in the Council meeting, presented a talk entitled "On the Correctness of Numerical Algorithms", participated in a panel discussion on "Problems in Education in Applied Mathematics" and chaired one of the technical sessions. He also gave a colloquium talk to the Department of Mathematics at Iowa State University on Nov. 2. The title of his talk was "Proving the Correctness of Computer Programs". He also presented a seminar on the subject "Design of a Programming Language for Scientific Computation". Prof. Hull also visited the Argonne National Laboratory on Nov. 4 and gave a seminar on "Effectiveness Theorems in Numerical Analysis".

PROF. C. C. GOTTLIEB was an invited participant in a two-day conference on The Future of The Computer Industry in Ontario, conducted by the Ontario Department of Trade and Development, Oct. 15-16.

PROF. L. MEZEI described the ARTA Graphics System and other projects to a YMCA workshop "Film and other Media in Community Dialogue" at Geneva Park, Lake Couchiching on Oct. 29.

PROF. D. TSICHRITZIS attended the 10th IEEE Symposium on Switching and Automata Theory held in Los Angeles, Oct. 28-30. He delivered a talk at UCLA on "Processes: Folklore and Formalism".

## Bio-Medical Electronics

Staff and students of the Institute participated in the Third Canadian Medical and Biological Engineering Conference in Halifax Sept. 9, 10 and 11. Papers presented dealt with "Three Techniques of Spectral Analysis in Electrocardiograms", "Interactive Computer for Selecting Variables in Medical Diagnosis Based on Information Theory", "Axonal Information Processing", "Prediction of Critical Time in Anoxic Myocardium or Brain by Automatically Evaluated Oxygen Chronopotentiometry", "Physical Interpretation of Biological Impedances with Applications to

(See page 8, col. 4)

## Merger seminar on Feb 15,16,17

A three day seminar dealing with "Mergers, Acquisitions and Divestitures" will be conducted Feb. 15, 16 and 17 by the School of Business, the fourth seminar on this subject. The basic purpose of the course is to analyze the process of mergers and acquisitions and the divesting and spin-off of undesired activities.

The course is intended for general and financial managers whose firms are or may be involved in acquisitions, mergers, and divestitures. Others not so directly concerned may also find the topic of interest and useful in the future. The chairman will be E. Butler, president of Glentech Instruments Limited, the venture capital arm of The Glengair Group.

Among the main speakers will be Howard Beck, an authority on the legal aspects of mergers, acquisitions and divestitures; George M. Currie, president of Urwick, Currie & Partners Ltd., with several of his partners who have recently participated in the writing of a textbook on the subject; Prof. Sam L. Hayes, Columbia University Business School, an authority on cash takeovers; Isay Stemp of New York, whose firm specializes in corporate growth counselling; and Charles M. Leighton, president of C. M. L. Incorporated.

More information is available from Prof. M. R. Hecht, School of Business. Telephone: 928-4013.

## Associates of N.Y. give \$11,000 to help pollution-free car search

Dean James Ham reports that the Faculty of Applied Science and Engineering has received a gift of \$11,000 from the Associates of the University of Toronto Inc., New York, towards an ongoing project in U of T's search for a pollution-free automobile, which began with the victory of "Miss Purity" in the transcontinental Clean Air Car Race.

As an initial step, a multidisciplinary committee has been formed to establish a plan of action. The committee includes representatives from Mechanical and Electrical Engineering and from the Cockburn Unit that was set up with funds left to the Faculty by a former professor of Engineering. Chairman of the committee is Dr. Frank Hooper of Mechanical Engineering. Prof. I. W. Smith, Mechanical Engineering, a member of the committee, has been appointed project executive director.

Prof. Hooper said that the initial objectives will be to analyse the lessons learned from "Miss Purity" and to establish the general form of a new vehicle.

"Miss Purity" finished sixth, only 90 minutes behind the leading car at the end of the 3,600-mile marathon. Arrival placing and time were only two of a large number of factors taken into consideration in declaring the final result, however. "Miss Purity" was adjudged co-winner in her class, the electro-propylene hybrids.

Prof. I. W. Smith said the aim of the group would be to draw upon the University's many fields of expertise in the design and construction of a low-pollution vehicle suited to typical Canadian operations. He emphasized that the present grant would serve to get the project started but that substantial additional funds would be required, probably in excess of \$100,000.

"Miss Purity" was built in approximately four months, at a cost of about \$40,000, provided mainly by estates of two former engineering professors, J. Roy Cockburn and William A. Wallace. It also received support from industry in the form of some parts, materials and technical advice.



# COMING EVENTS

## DECEMBER

### 17 THURSDAY

- Lectures**  
**Dentistry** "The Development of Improved Topical Fluoride Procedures". Dr. Finn Brudevold, Department of Biochemistry, Forsyth Dental Center, Boston. Room 6 Professional Building, 123 Edward St. 2 p.m. (SGS and Dentistry)
- Computer** "Galerkin Methods for Parabolic Equations". Prof. Graeme Fairweather, Department of Mathematics, Rice University, Houston, Texas. Room 103 McLennan Physical Laboratories. 3.30 p.m. (SGS and Computer Science)
- Physics** "Magnetic Striction in Metals". Prof. Eric Fawcett. Room 102 McLennan Physical Laboratories. 4.10 p.m.
- Seminar**  
**Aerospace** "Metropolis of the Future". Prof. A. P. Bernhart. Main Lecture Hall, Institute for Aerospace Studies. 1.30 p.m.
- Music** Thursday Afternoon Series. University of Toronto Concert Choir. Trinity College Chapel. 2 p.m. Free.

### 21 MONDAY

- Television**  
**Computer** Half-hour TV programs on Computer Science with the Ontario Educational Communication Authority, entitled "Imagery of the Next Medium". "Pictures not only for play". Prof. L. Mezei. Channel 19, 7 p.m. (Computer Science and Computer Systems Research Group)

### 28 MONDAY

- Television**  
**Computer** Third in half-hour program on Computer Science with the Ontario Educational Communication Authority, entitled "Imagery of the Next Medium". "Randomness, Cybernetics and All That". Prof. L. Mezei. Channel 19, 7 p.m. (Computer Science and Computer Systems Research Group)

### 30 WEDNESDAY

- Television** "Astrology in History" one of the series "Thoughts and Theories", a program by Prof. James Boake edited by Terry McCartney-Filgate. Channel 19. 9 p.m. (Instructional Media Centre's film)

### 31 THURSDAY

- Supper** Faculty Club Buffet Supper. 6-9 p.m.

## JANUARY

### 4 MONDAY

- Television**  
**Computer** Fourth in half-hour program on Computer Science with the Ontario Educational Communication Authority, entitled "Imagery of the Next Medium". "The Muse and Modern Machinery". Prof. L. Mezei. Channel 19, 7 p.m. (Computer Science and Computer Systems Research Group)

### 7 THURSDAY

- Music** Thursday Afternoon Series. "Words and Music". Prof. Robert Falck. Concert Hall, Edward Johnson Building. 2 p.m. Free.

### 9 SATURDAY

- Symposium**  
**Medicine** "Cellular Differentiation" symposium. "The Molecular Basis of Differentiation in Bacteriophage Lambda". Dr. M. Pearson. 9 a.m. "Components of Transfer-RNA: Possible Role in Regulation of Differential Protein Synthesis". Dr. R. H. Hall. 9.45 a.m. "Differential Genic Activity in a Cell Constant Eukaryote". Dr. J. J. Paternak, Department of Biology, University of Waterloo. 11 a.m. "Somatic Cell Mutants". Dr. L. Thompson. 11.45 a.m. "Physical and Chemical Studies of Mouse Spermatogenesis". Dr. W. R. Bruce. 2 p.m. "Influence of Gonadotrophic Hormones on the Generation of Spermatocytes During Spermatogenesis in Rats". Dr. V. L. W. Go, Dr. R. G. Vernon, and Dr. I. B. Fritz. 2.45 p.m. "Cellular Differentiation in the Blood Forming System". Dr. J. E. Till. 3.30 p.m. Main Auditorium, Medical Sciences Building. (Toronto Biochemical and Biophysical Society). Admission \$1.

### 12 TUESDAY

- Broadcast**  
**Islamic** "Persian Literature — An Affirmation of Identity". Over CJRT-FM (91.1) at 1.30 p.m. and repeated at 9 p.m. (Islamic Studies)

### 13 WEDNESDAY

- Colloquium** "The Concept of Jewish Studies". Prof. Monford Harris. Combination Room, Trinity College. 8 p.m. (Jewish Studies Program)

### 19 TUESDAY

- Lecture**  
**English** "Language, History and Vision: An Approach to Eighteenth-Century Literature". Prof. Peter Hughes. Lecture Hall, Room 3 Academic Building, Victoria College. 4.30 p.m.

### 20 WEDNESDAY

- Seminar**  
**Medicine** "Prostaglandins and Neuronal Activity in Spinal Cord and Cuneate Nucleus". Dr. F. Coceani. Room 2172 Medical Sciences Building. 4-6 p.m.

## Appointed & Promoted

### Arts and Science

PIERRE LORION (Sociology and Erindale) educated at the Sorbonne, at the Institute of Ethnology, Paris, and at UCLA, has been research assistant and teaching assistant at UCLA and professor in the French School of the Alliance Française, Los Angeles.

The following have been promoted to the rank of professor: W. J. SAMARIN (Botany); S. McLEAN (Chemistry); W. VITZTHUM (Fine Art); J. J. VAN DER EYK (Geography); E. BRNBAUM (Islamic Studies); J. GULSOY (Italian and Hispanic Studies); K. B. RANGER (Mathematics); J. D. PRENTICE (Physics); M. H. WATKINS, R. M. BIRD, S. HOLLANDER, W. E. GRASHAM, J. F. HOUGH and D. F. FORSTER (Political Economy); C. S. CHURCHER and D. H. PIMLOTT (Zoology).

The following have been promoted to associate professorships: S. NAGATA (Anthropology); I. W. J. STILL and A. WALKER

(Chemistry); N. K. WAGLE, D. B. WATERHOUSE and I. J. McMULLEN (East Asian Studies); W. M. JOHNSON (Fine Art); P. CAVE, A. M. BAKER, J. A. MAY, J. N. H. BRITTON, J. B. R. WHITNEY and J. H. GALLOWAY (Geography); C. C. BERGER (History); M. Q. BAIG (Islamic Studies); A. VICARI, M. KUITUNEN, and G. CLIVIO (Italian and Hispanic Studies); P. C. GREINER, J. C. MASTON, N. A. DERZKO, and E. P. BOTTA (Mathematics); P. J. O'DONNELL, P. A. GRIFFIN and R. E. KREPS (Physics); W. L. SUMNER and L. W. FORGUSON (Philosophy); Mrs. HELEN HARDY (Political Economy and Trinity); M. L. HANDA (Political Economy and OISE); B. KØVRIG and D. A. A. STAGER (Political Economy); M. C. SMITH (Psychology); M. SURDUCKI (Slavic Languages and Literatures); K. N. WALKER (Sociology).

Promoted to the rank of assistant professor were: G. R. THALER (Botany); ROBERT DESHMAN (Fine Art); H. F. ANDREWS (Geography); A. E. OLDERSHAW

(Geology); Mrs. R. V. COLMAN (History); M.-J. MAILLARD and M. A. CORVETTI (Italian and Hispanic Studies); PETER HESS (Philosophy and Victoria); G. R. CARLSON (Philosophy and Trinity); C. V. PONOMAREFF and S. KONONOFF (Slavic Languages and Literatures); A. M. BENNETT (Sociology).

### Victoria College

In the Department of English, CYRUS HAMLIN, associate professor, comes from Yale. He will also teach in the Graduate Comparative Literature Program. His main work so far has been on Holderlin.

MISS HENRIETTA MARTIN, assistant professor, comes from Bedford College, London. She is a cross-appointment with the Centre for Medieval Studies.

The following promotions have been made: to professor, DAVID KNIGHT; to associate professor, MISS ALEXANDRA JOHNSTON and Mrs. ANNABEL PATTERSON; to assistant professor, Mrs. JANE MILLGATE. Mrs. Millgate gained her doctorate in June at the University of Kent, England.

### Innis College

DANIEL FOGARTY, for many years a member of the staff at St. Mary's University, Halifax, and latterly its Vice-President Academic, has been appointed director of the Innis College Transitional Year Program. He has also been appointed visiting professor at the College of Education for the 1970-71 session. Associated with Prof. Fogarty in this program are Miss Mary Campbell, formerly of Parkdale Collegiate Institute and from 1948 to 1966 a member of the Senate, and Gary Teeple, a doctoral candidate in the Department of Political Economy. Each of these is offering a course especially designed for these students in, respectively, the Humanities, English and the Social Sciences.

### Medicine

HENRY BOWER KEDWARD has been appointed associate professor (Psychiatry). He will also head the section Psychiatric Epidemiology in the Clarke Institute of Psychiatry. Dr. Kedward received his medical training at Manchester University; majored in sociology at Nottingham University, trained at London University for his postgraduate diploma in Psychiatry and Psychological Medicine. Prior to coming to Toronto Dr. Kedward was psychiatric speciality (University Courtesy Staff) at the General Hospital, St. John's Nfld., and he was professor of Social Medicine, Director of the Social Medicine Research Unit, and chairman of the Behavioural Science Courses Committee at Memorial University.

J. P. O. SILBERSTEIN (Mathematics) is visiting professor and professional associate. He comes from the University of Western Australia, and was formerly at Aeronautical Research Laboratories, and at C.S.I.R. Aeronautical Research Laboratories. His education was obtained in Vienna, London, Melbourne, and at Cambridge.

ANATOL RAPOPORT (Mathematics, Psychology and Scarborough) is visiting professor and professional associate. With degrees in Mathematics and Music, he has taught at the University of Denmark; Institute of Advanced Study, Vienna; Mental Health Research Institutes; Universities of Chicago and Michigan; Stanford University.

DAVID R. HARRIS (Geography) visiting associate professor from University College, University of London, has also taught at University of California at Berkeley, University of New Mexico, and Queen Mary College, University of London. He has degrees from Oxford and California.

PETER FILIMORE (Mathematics), visiting associate professor and professional associate, educated at Dalhousie University and the University of Minnesota, has taught at the University of Chicago, and since 1964 at Indiana University.

J. A. GRANT (Mathematics) visiting associate professor and professional associate, was educated at Oxford and Cambridge, and has been lecturing at the University of Leeds.

SIDNEY A. LUCKENBACH (Philosophy) visiting associate professor, earned his Ph.D. at the University of Pittsburgh in 1969. He has taught at Georgia State College, San Fernando Valley State College and at Pittsburgh.

HENRYK FLAKIERSKI (Political Science and Erindale) visiting associate professor, has been at McGill University temporarily. He has degrees from Leningrad Planning Institute and the University of Warsaw. He held posts in the Central School of Planning and Statistics, Warsaw.

R. L. COHEN (Psychology) visiting associate professor, is a graduate of the University of Edinburgh, and of Uppsala University, where he has been teaching.

DAVID RODEN (Geography) visiting assistant professor, comes from the University of Khartoum where he has taught since 1964. He is a graduate of the University of London.

J. H. THORNES (Geography) visiting assistant professor, has been teaching at the London School of Economics since 1966.

He has degrees from the University of London and McGill.

J. V. CORBETT (Mathematics) visiting assistant professor and professional associate, is a graduate of the University of Adelaide where he earned his Ph.D. in 1966. He has held posts at the University of New South Wales; University of California, Davis; and most recently at the Centre de Physique Théorique, Marseille.

MAYER HUMI (Mathematics), visiting assistant professor and professional associate, holds degrees from the Hebrew University, Jerusalem, and the Weizmann Institute of Science. He was a Post-doctoral Fellow here last session.

## Senate reports 8306 degrees conferred in '70

Summary of the minutes of the meeting of the Senate on Nov. 13:

The minutes of the meeting of Oct. 8 were approved.

The Senate approved the Report on Examination results in all faculties, schools and institutes for the 1969-70 session.

The Senate approved the Report on Degrees and Diplomas to be conferred at the fall Convocations 1970 for all faculties, schools and institutes (1952 degrees to be conferred in the fall, a total of 8306 degrees conferred in 1970).

The Senate approved a report from the School of Graduate Studies concerning the Ontario Graduate Fellowships 1970-71, the School of Graduate Studies awards, and changes in the regulations and courses of study 1970-71.

The Senate approved a report from the Faculty of Arts and Science concerning amendments to the calendar and courses of study for 1970-71.

The Senate approved a recommendation from the Executive Committee in favour of admitting to the Bachelor of Education program offered through the Division of University Extension students who have completed a one year program of studies at the College of Education and who have a permanent Elementary School Teachers' Certificate.

The Senate approved a report from the Committee on Applications and Memorials which recommended the granting of one appeal against a decision of the Faculty of Arts and Science.

The Senate approved the Report of the Committee on Scholarships and Other Awards, recommending seven new awards, amendments to five existing awards, and the termination of five awards.

The Senate approved a statute respecting the change in name of the Department of Physiological Hygiene in the School of Hygiene to the Department of Environmental Health.

The Senate approved a statute respecting the establishment of an Institute of Immunology in the School of Graduate Studies.

## Seek chairman for Chemistry

A committee has been constituted to look for and recommend the appointment of a successor to Prof. Donald J. LeRoy as chairman of the Department of Chemistry in the Faculty of Arts and Science.

Prof. LeRoy has indicated his wish to resign the chairmanship at the end of the 1970-71 academic session. At present he is on leave from U of T to serve as vice-president of the National Research Council with special responsibilities for funding university research.

Members of the search committee are: Chairman, Dean A. D. Allen; Associate Dean W. T. Sharp, Arts and Science; Associate Dean J. N. P. Hume, School of Graduate Studies; Prof. M. J. Dignam, Chemistry; Prof. W. F. Graydon, Chemical Engineering; Dean James M. Ham, Applied Science and Engineering; Prof. John C. Polanyi, Chemistry; Dean E. A. Robinson, Chemistry and Erindale College; Prof. J. Van Kranendonk, Physics; Prof. Peter Yates, Chemistry.





EDVARD HAMBRO, President of the United Nations General Assembly (left), addresses the final 1970 Convocation after receiving the honorary degree of Doctor of Laws. Dr. Hambro was one of two recipients of honorary degrees conferred at this



fall's Convocations. An LL.D. was also conferred upon Alexander Brady, professor emeritus of political economy at U of T and a distinguished graduate of the University, seen in the picture on the right being congratulated by Chancellor Omond Solandt.

## 22½-foot pylon Christmas gift for University

Those whose curiosity has been aroused by the 22½-foot high object, wreathed in polyethylene, on the north side of the Medical Sciences Building, will find the answer to their questions on Friday, Dec. 18 at 2 p.m.

The pre-cast concrete spiral motif is a Christmas present to the University from Beer Pre-Cast Concrete Limited, the company that was responsible for constructing the sculptured concrete exterior of the building. Dr. John Hamilton, Vice-President, Health Sciences, will accept the gift from the company president, Fred A. Beer.

The structure consists of 18 spiral components, each weighing 1,350 pounds and joined together by welded stainless steel.

## STAFF NOTES

(Continued from page 6)

Electrostimulation" and "An Engineering Design Study for Methods of Detecting Ovulation". Prof. N. F. Moody chaired a session on Instrumentation Shock-Hazards and Sensors.

### Centre for Medieval Studies

At Cambridge, Mass., on April 10, Prof. JOHN LEYERLE presided at an open meeting of the Mediaeval Academy of America's Standing Committee on Centers and Regional Associations, of which he is Chairman. On May 2, he presented a paper on "The Game and Play of Hero" at the Fourth Annual Conference in Medieval Studies, sponsored by the Center for Medieval and Early Renaissance Studies of the State University of New York at Binghamton, N.Y. The subject of the Conference was "The Development of the Medieval Concept of the Hero". On May 20, Prof. Leyerle was Chairman of the Drama Section of the Fifth Biennial Conference on Medieval Studies, May 19-22, sponsored by The Medieval Institute of Western Michigan University, Kalamazoo. On May 21 at the same conference, he read a paper on "Thematic Interlace in the *Canterbury Tales*". On July 20, he attended a meeting of Editors of *Anglo-Saxon England* at the Cambridge University Press. On Oct. 25, he attended a meeting of the Executive Committee of the Mediaeval Academy of America at the Harvard Faculty Club, Cambridge, Mass. and on Nov. 7, the Fall meeting of the Rocky Mountain Medieval and Renaissance Association. At Cornell University Prof. Leyerle offered a seminar on "*Beowulf* and the *Mirabilia*" on Nov. 16, and on Nov. 17 he gave an illustrated lecture on "*The Rota-Rosa* in Medieval Architecture and Poetry".

### Connaught Medical Research Laboratories

At the 10th International Congress of Microbiology held in Mexico City, Aug. 9-15, Dr. S. LANDI presented a paper co-authored by Mr. M. C. TSENG and Dr. H. R. HELD, entitled "Retention of C<sup>14</sup>-labelled Tuberculin PPD in the Skin of Sensitized and Non-Sensitized Animals". Dr. Landi, as a Member of the Scientific Committees of the International Union against Tuberculosis, was invited to attend the Annual Meeting of the Scientific Committees which met Sept. 5-12 in Ankara, Turkey. At this meeting Dr. Landi gave a paper entitled "A Comparison between Two Tuberculins, Bovine PPD and the International Standard for PPD (PPD-S) on Sensitized Guinea Pigs". Dr. Landi also delivered a series of conferences in Italy, Romania, Bulgaria, Greece and France on the following topic "The Present Status on the Physical, Chemical and Biological Properties of Tuberculins".

At the 6th Pan American Congress of Veterinary Medicine and Zootechnics held in Santiago, Chile, Sept. 28-Oct. 3, Dr. K. F. LAWSON presented a paper entitled "The ERA Strain of Rabies Vaccine".

At the annual meeting of the Laboratory Section, Canadian Public Health Association, held in Ottawa, Nov. 26-27, Dr. P. FENJE presented a paper, co-authored by B. POSTIC, entitled "Prophylaxis of Experimental Rabies with Poly I:C".

## Prof L. Butler is associate dean of Graduate School Division IV

Summary of the Minutes of the Council of the School of Graduate Studies, Nov. 17, 1970:

In the absence of the President, Acting Dean W. Douglas Baines took the chair.

*Business rising from the minutes of the meeting of Oct. 20*

*OCCS recommendations on distribution of theses.* The chairman advised Council that this report had been circulated before being discussed with the Ontario Council of University Librarians whose comments were still awaited. It was agreed to defer consideration of the report until the comments of O.C.U.L. were available.

### Communications

It was noted that H. J. Graff (student representative, Division I) had resigned from Council membership due to pressure of academic commitments.

### Dean's report

*Enrolment figures.* Total enrolment figure after the end of the late registration period was reported as 6628.

*Committee on University Affairs.* Council received statistical information prepared for the meeting of the University with the Committee on University Affairs on November 23, 1970.

*Employment situation for Graduates.* Dean Baines advised Council that the Committee of University Presidents proposed the establishment of a small team of consultants to review the employment situation for graduates on a university-wide basis in Ontario. Reference was made to a survey published by the Graduate Students' Union of the University of Toronto on November 16 relating to the employment prospects of the University's Ph.D. graduates and at this point Miss Endres asked that the survey be considered at the next meeting of Council.

*Maximum formula support.* Dean Baines reported that the formula for support of students by the Provincial Government now included a maximum amount equal to two years' full-time study for a Master's degree and a total of 27 units during a student's graduate career, this figure being equal to approximately five years' full-time attendance beyond a four-year Bachelor's Degree.

### Reports of Associate Deans

*Divisions III and IV — no reports.*

*Division I.* On the proposal of Associate Dean Parker, seconded by Professor Thornton, it was agreed to appoint Professor T. O. Lloyd to replace Professor

H. L. Dyck to the Degree Committee for the remainder of the 1970-71 session.

*Division II.* Council approved the proposal of Associate Dean Sawyer, seconded by Professor Cinader, that the new residence requirements contained in the degree regulations for the D.S.W. program be not applicable to students enrolled in the autumn of 1970.

Council approved the introduction of a new course in the Department of Educational Theory, "Seminar and Practicum in Comparative Special Education".

Council approved the use by the Institute for Quantitative Analysis of Social and Economic Policy of the shortened title "Institute for Policy Analysis" when brevity was considered desirable.

Permission was given for the Social Work Course 1601X "Social and Professional Values" to be classified as a course to be graded on a pass/fail basis.

### Election of Associate Dean, Division IV

Council was advised of the election by a meeting of Division IV of Prof. L. Butler to replace Associate Dean Fallis as from January 1, 1971. Council recorded its gratitude to Associate Dean Fallis for the significant contribution he had made to the work of the Graduate School and to the deliberations of Council.

### Proposal for the establishment of a graduate department in metabolic control

It was agreed that this proposal be referred back to the Executive Committee for further consideration with the

request that Council be informed of the views of all Departments involved.

### Other business

Prof. Thornton referred to the question of the Graduate Summer School and it was agreed that this matter should be discussed with the administrative officers before being raised in Council.

It was reported that the Calendar Committee would be bringing forward a suggestion for a change in the regulations relating to the length of time between adjourned and re-convened oral examinations.

Council was advised that it has become necessary to withdraw the M.A.(T.) program from the appraisals procedure of O.C.G.S.

## Medieval technology historian visits U of T

Dr. Lynn White, Jr., professor of history and director of the Center for Medieval and Renaissance Studies at the University of California, Los Angeles, visited the University of Toronto this week.

Prof. White is the author of *Medieval Technology and Social Change* (1962), and *Machina Ex Deo, A Series of Essays in the Dynamism in Western Culture* (1968). Prof. White, the doyen of historians of medieval technology, has virtually revolutionized that field, showing that the lessons of the past are directly applicable to the situation of the present.

He attended seminars and participated in discussions at the Centre for Technology and Culture and with the Institute for the History and Philosophy of Science and Technology.

## U of T Press is first to publish in both microfiche and book form

University of Toronto Press will publish its new titles and new editions of its existing titles simultaneously in standard microfiche and traditional book form beginning Jan. 1.

Microfiches will thus be available automatically for all Toronto books beginning with 1971 imprints, except in a few cases where arrangements for co-publishing may not permit. Librarians may order titles in microfiche by author, title or ISBN number (the same as for the book) as long as requirements are clearly stated. (ISBN number followed by the initials *mf* will suffice.)

The Press has adopted this policy to help meet library storage problems and to supply safe, constantly accessible

copies of new reference and scholarly works for library purposes from the moment of first publication. Toronto is the first publisher, so far as is known, to institute simultaneous publication in both traditional and microfiche modes.

Microfiche editions of current Toronto titles will be available at the same prices and on the same terms as the corresponding hard-copy editions. Libraries may thus procure either edition: some institutions may wish to purchase both.

This program of microfiche publication is quite different from the republishing of out-of-print Toronto titles, or the assembling of libraries of source material on microfiche. Programs regarding both will be announced separately.